

PERSONAL INFORMATION

Name: PUERTO ALBANDOZ, Justo

Nationality: Spanish Year of birth: 1961

URL for web site: https://investigacion.us.es/sisius/sis_showpub.php?idpers=1063

SCOPUS H INDEX: 19.

GOOGLE SCHOLAR H INDEX: 30.

SCOPUS OVERALL CITATIONS: 1270

GOOGLE SCHOLAR CITATIONS: 3071

EDUCATION

1990 PhD Dpto. Estadística e Investigación Operativa (EIO), Facultad de Matemáticas, Univ. Sevilla, Spain

CURRENT POSITION(S)

2001 – 2016 Full Professor. Dpto. EIO, Facultad de Matemáticas, Univ. Sevilla, Spain

PREVIOUS POSITIONS

1986 – 1988 Pre-doctoral Grant

1989 – 1990 Teaching assistant, Facultad de Matemáticas, Univ. Sevilla, Spain.

1990 – 1992 T.E.U. Professor. Dpto. EIO. Fac. de Matemáticas, Univ. Sevilla, Spain

1993-2000 Associate Professor Dpto. EIO. Fac. de Matemáticas, Univ. Sevilla, Spain

SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

1994 – 2014 3 Postdocs (Jörg Kalcsics, Federico Perea, Ana B. Ramos)

14 PhDs (Eduardo Conde, Amparo Mármol, Manuel Muñoz-Marquez, Luisa Monroy, Antonio Rodríguez-Chía, Yolanda Hinojosa, Cristina Fernández, Federico Perea, Víctor Blanco, Safae El HajBenali, Miguel A. Pozo, Diego Ponce) Dpto. EIO, Facultad de Matemáticas, Univ. Sevilla, Spain. José Miguel Gutierrez, Univ. La Laguna, Spain. Luis Guardiola, Univ. Miguel Hernandez de Elche, Spain.

TEACHING ACTIVITIES (if applicable)

1986 – 1990 Assistant; Biostatistics, Operations Research and Mathematical Programming. Facultad de Matemáticas, Univ. Sevilla, Spain

1990 – 1992 Assistant Professor (TEU): Operations Research, Queuing Theory, Biostatistics. Facultad de Matemáticas, Univ. Sevilla, Spain.

1993-1995 and 1997-2001 Associate Professor (TU): Operations Research and Queuing Theory. Facultad de Matemáticas, Univ. Sevilla, Spain.

1996. Location Theory. Univ. Kaiserslautern, Germany

2001-2011 and 2013-14 Linear Programming; Nonlinear Programming and Mathematical Methods for Operations Research. Facultad de Matemáticas, Univ. Sevilla, Spain

ORGANIZATION OF SCIENTIFIC MEETINGS (if applicable)

1998-2014 Scientific committee member for the EWGLA meetings.

2002 Scientific committee member V Spanish Meeting on Game Theory. Sevilla.

2006. Program Committee member of MOPGP'06. Tours (Francia).

2007, 2009. Program Committee member of SPO 2007, SPO 2009, Jaca, España.

2009. Chairman of "Modelling Summer at IMUS", Sevilla.

2010 Chairman of "Exploratory workshop on mixed-integer Non-Linear Programming", Sevilla.

2010. Program Committee member of "Behavioral and quantitative Game Theory: Conference on future directions", Newport Beach, CA (USA).

2007-2010. Scientific committee member of the annual meetings of SEIO.

2011 Scientific committee member of doc-course IMUS "New topics in Game Theory", Sevilla.

2011. Chairman of the meeting ORP3 – 2011, Cádiz.

2015. II Workshop on MINLP Seville.

2016. MSRI-IMUS Graduate Summer School on Mixed Integer Nonlinear Programming

INSTITUTIONAL RESPONSIBILITIES (if applicable)

1995 Secretary of Dep. Estadística e Investigación Operativa, Univ. Sevilla, Spain

2007 – 2015 Secretary of Instituto de Investigación Matemática (IMUS), Univ. Sevilla, Spain

2010-2015 Chairman of the PhD Program of Mathematics of the University of Seville.

2014-2015 Representative of IMUS at the Academic Sponsor Committee of Mathematical Science Research Institute (MSRI), Berkeley.

COMMISSIONS OF TRUST (if applicable)

Since 2000 Review Board, ANEP, Spain

2007 – 2012 Editor in chief of TOP the Spanish Journal of Operational Research Journal, JCR in Operations Research. Springer.

2008 – 2012 Member of the Advisory Board for the National Program in Mathematics, Spanish Government, Spain

2012 – 2014 Member of the Editorial Board of Computers and Operations Research.Elsevier.

2010 – 2014 Associate Editor of Discrete Optimization.Elsevier.

MEMBERSHIPS OF SCIENTIFIC SOCIETIES (if applicable)

Since 1992 Member of SEIO, Spain (2005-2011: Executive Committee member)

MAJOR COLLABORATIONS (if applicable)

Collaborator: S. Nickel, Optimization with ordering (theoretical results), KIT, Karlsruhe, Germany.

Collaborator: Pier L. Papini, Optimization of Location Problems in Banach spaces (theoretical results), Univ. Bologna, Italy.

Collaborator: A. Tamir, Combinatorial Optimization and Algorithms (theoretical results), Univ. Tel Aviv, Israel.

Collaborator: F. Ricca and A. Scozzari, Optimization problems on networks, La Sapienza and NicoloCusano di Roma.

ON-GOING GRANTS

Project Title	Funding source	Amount (Euros)	Period	Role of the PI	Relation to current proposal
DEMACON 2	Andalusian Reg. Gov. FQM-5849	254752	March 2011- April 2016	Chairman	Direct
DESAFIOS MATEMATICOS EN EL DISEÑO Y OPTIMIZACION DE REDES COMPLEJAS	Spanish Government MTM2013	81.663	Nov 2015- Nov 2017	Chairman	Direct
ARIADNA	Corporación Tecnológica de Andalucía CTA 2015	113.000	July 2015- October 2016	Chairman	Direct
NUEVOS DESAFÍOS MATEMÁTICOS EN PROBLEMAS LOGÍSTICOS Y DE TRANSPORTE INTEGRADO SOBRE REDES COMPLEJAS: DISEÑO Y OPTIMIZACIÓN	Spanish Government MTM2016	140.600	January 2017- December 2020	Chairman	Direct

TEN YEARS TRACK-RECORD: Fifteen representative publications in leading international peer-reviewed journals in (last ten years):

1. G. Laporte; F.A. Ortega, M.A. Pozo, J. Puerto; "Multi-objective integration of timetables, vehicle schedules and user routings in a transit network", *Transportation Research Part B*, 98 (2017), 94--112.
2. J. Puerto, F. Perea, "On minimax and Pareto optimal security payoffs in multicriteria games", *Journal of Mathematical Analysis and Applications*. 2016. <http://dx.doi.org/10.1016/j.jmaa.2017.01.002>
3. J. Puerto, A.M. Rodríguez-Chía, A. Tamir, "Revisiting \sum Optimization", *Mathematical Programming* 2016. DOI: 10.1007/s10107-016-1096-1
4. V. Blanco, J. Puerto, D. Ponce, "Continuous location under the effect of refraction", *Mathematical Programming* 2016, DOI: 10.1007/s10107-016-1002-x.
5. E. Fernández, M. Pozo, J. Puerto, A. Scozzari, "Ordered Weighted Average Optimization in Multiobjective Spanning Tree Problems", *European Journal of Operational Research* 2016, DOI: 10.1016/j.ejor.2016.10.016.
6. J. Puerto, A.M. Rodríguez-Chia, C. Sanchez, A.B. Ramos, "Ordered Median Hub Location Problems with Capacity Constraints", Accepted in *Transportation Research Part C*, 2015. <http://dx.doi.org/10.1016/j.trc.2015.05.012>
7. V. Blanco, J. Puerto, "Short rational generating functions for solving some families of fuzzy integer programming problems", *Fuzzy Sets and Systems*, Volume 272, 1:30–46, (2015).
8. V. Blanco, S. El Haj Ben Ali, J. Puerto, "Revisiting several problems and algorithms in Continuous Location with l_p norms", *Computational Optimization and Applications* 58(3): 563-595, (2014).
9. F. Perea, J. Puerto, "Revisiting a game theoretic framework for the robust railway network design against intentional attacks", *European Journal of Operational Research*, 226(2), 286--292 (2013). 10.1016/j.ejor.2012.11.015.
10. J. Puerto, A.M. Rodríguez-Chia, "On the structure of the solution set for the single facility location problem with average distances", *Mathematical Programming* 128:373-401, (2011).
11. V. Blanco, J. Puerto, Ana B. Ramos, "Expanding the Spanish high-speed railway network", *OMEGA*, 39, 138-150, (2011).
12. J. Puerto, A.M. Rodríguez-Chia, A. Tamir, "On the Planar Piecewise Quadratic 1-Center Problem". *Algorithmica*, 57 (2), 252-283, (2010).
13. V. Blanco, J. Puerto "Partial Gröbner bases for multiobjective integer linear optimization", *SIAM Journal of Discrete Mathematics*, 23- 2, pp. 571-595, (2009).
14. Guardiola L.A., Meca A., and Puerto J. "Coordination in periodic review inventory situations." *Games and Economic Behavior*, 65(1) 205-219, (2009).
15. Y. Hinojosa, J. Kalcsics, S. Nickel, J. Puerto, S. Velten. "Dynamic Supply Chain Design with Inventory", *Computers and Operations Research*, 35, 373-391, 2008.

Books:

S. Nickel, J. Puerto: *Location Theory - A Unified Approach*. Springer 2005: I-XX, 1-437 44

F.R. Fernández, J. Puerto. "Teoría de Juegos Multiobjetivo". ISBN: 84-689-6702-5. Depósito Legal MA-102-2006. Málaga (2006).

J. Puerto et al. (Eds.), "Proceedings of OR Peripatetic Post-Graduate Programme (ORP³-2011)". Servicio de Publicaciones de la Universidad de Cádiz, ISBN: 978-84-9828-348-8. 2011.

Juan A. Mesa, Francisco A. Ortega, Miguel A. Pozo and Justo Puerto (2014). *Rescheduling Railway Timetables in Presence of Passenger Transfers Between Lines Within a Transportation*

Network. Advances in Intelligent Systems and Computing vol. 262. Computer-based Modelling and Optimization in Transportation. J. F. de Sousa and R. Rossi (eds.). Springer International Publishing Switzerland. ISBN: 978-3-319-04629-7 (Print), 978-3-319-04630-3 (Online) DOI: 10.1007/978-3-319-04630-3-26. Springer International Publishing Switzerland 2014.

S. Nickel, J. Puerto and A.M. Rodríguez-Chia (2015) "Location Problems with multiple criteria". In Location Science, G. Laporte, S. Nickel and F. Saldanha da Gama (Eds.). Springer. ISBN: 978-3-319-13110-8.

J. Puerto and A.M. Rodríguez-Chia (2015) "Ordered Median Location Problems". In Location Science, G. Laporte, S. Nickel and F. Saldanha da Gama (Eds.). Springer. ISBN: 978-3-319-13110-8.

FULL LIST OF ARTICLES SINCE 2005.

G. Laporte; F.A. Ortega, M.A. Pozo, J. Puerto; "Multi-objective integration of timetables, vehicle schedules and user routings in a transit network", Transportation Research Part B, 98 (2017), 94--112.

J. Puerto, F. Perea, "On minimax and Pareto optimal security payoffs in multicriteria games", Journal of Mathematical Analysis and Applications. 2016. <http://dx.doi.org/10.1016/j.jmaa.2017.01.002>

Lari, I., Puerto, J., Ricca, F., Scozzari; "A. Algorithms for uniform centered partitions of trees", Electronic Notes in Discrete Mathematics. 55, pp. 37-40. 2016.

J. Alcaraz, E.M. García-Nove, M. Landete, F.J. Monge, J. Puerto. "Rank aggregation in cyclic sequences", Optim Lett (2016). doi:10.1007/s11590-016-1047-z.

Labbé, M., Ponce D., Puerto J. "A Comparative Study of Formulations and Solution Methods for the Discrete Ordered p -Median Problem", Computers and Operations Research, Volume 78, 2017, 230–242. DOI: 10.1016/j.cor.2016.06.004

E. Fernández, M. Pozo, J. Puerto, A. Scozzari, "Ordered Weighted Average Optimization in Multiobjective Spanning Tree Problems", European Journal of Operational Research 2016, DOI: 10.1016/j.ejor.2016.10.016.

J. Puerto, A.M. Rodríguez-Chía, A. Tamir, "Revisiting k -sum Optimization", Mathematical Programming 2016. DOI: 10.1007/s10107-016-1096-1

V. Blanco, J. Puerto, D. Ponce, "Continuous location under the effect of refraction", Math. Program. (2016). doi:10.1007/s10107-016-1002-x.

V. Blanco, J. Puerto, S. El Haj, "Continuous multifacility ordered median location problems", European Journal of Operational Research 250(1): 56-64, 2016, DOI 10.1016/j.ejor.2015.10.065

I. Lari, J. Puerto, F. Ricca, A. Scozzari, "Partitioning a graph into connected components with fixed centers and optimizing different criteria", Networks 67(1): 69-81, 2016. DOI: 10.1002/net.21661.

- J. Puerto, A.M. Rodriguez-Chia, C. Sanchez, A.B. Ramos, "Ordered Median Hub Location Problems with Capacity Constraints", Accepted in Transportation Research- Part C 2015. <http://dx.doi.org/10.1016/j.trc.2015.05.012>
- J. Gago-Vargas, I. Hartillo, J. Puerto and J.M. Ucha; "An improved test set approach to nonlinear integer problems with applications to engineering design", Computational Optimization and Applications. DOI 10.1007/s10589-015-9739-3, 2015.
- M. Albareda, Y. Hinojosa, J. Puerto, "The reliable p-median problem with at-facility service", European Journal of Operational Research, 245(3) 656-666. 2015. DOI 10.1016/j.ejor.2015.03.049.
- M. Albareda, Y. Hinojosa, A. Marin, J. Puerto, "When centers can fail: A close second opportunity ", Computers and Operations Research, 62 (2015), pp. 145-156.
DOI information: 10.1016/j.cor.2015.01.002
- E. Fernandez, M.A. Pozo, J. Puerto, "Ordered Weighted Average Combinatorial Optimization: Formulations and their properties", Discrete Applied Mathematics, 169:31, 97-118, 2014..
- V. Blanco, S. El Haj Ben Ali, J. Puerto, "Revisiting several problems and algorithms in Continuous Location with p- norms", Computational Optimization and Applications 58(3) 2014: 563-595. DOI: 10.1007/s10589-014-9638-z
- J. Puerto, F. Ricca, A. Scozzari, "Reliability problems in multiple path-shaped facility location on networks", Discrete Optimization DOI. 10.1016/j.disopt.2014.01.003
- Y. Hinojosa, J. Puerto, F. Saldanha, "A two-stage stochastic transportation problem with fixed handling costs and a priori selection of the distribution channels", TOP, 2014. DOI 10.1007/s11750-014-0321-4
- J. Kalcsics, S. Nickel, J. Puerto, A.M. Rodriguez-Chia, "Several 2-Facility Location Problems on Networks with Equity Objectives", Networks, 65(1), 1-9, 2015.
- V. Blanco, J. Puerto, "Short rational generating functions for solving some families of fuzzy integer programming problems", Fuzzy Sets and Systems, Volume 272, 1:30-46, (2015).
- F. Ortega, M.A. Pozo, J. Puerto, "Modelling and planning public cultural schedules for efficient use of resources" Computers & Operations Research 58: 9-23, 2015.
- J. Gago-Vargas, I. Hartillo, J. Puerto and J.M. Ucha; "An improved test set approach to nonlinear integer problems with applications to engineering design", Computational Optimization and Applications. DOI 10.1007/s10589-015-9739-3, 2015.
- J. Kalcsics, S. Nickel, M.A. Pozo, J. Puerto, A.M. Rodriguez-Chia, "The multi-criteria p-facility median location problem on networks", European Journal of Operational Research 235 (2014), pp. 484-493. DOI information: 10.1016/j.ejor.2014.01.003
- J. Puerto, F. Ricca, A. Scozzari, "Unreliable point facility location problems on networks", Discrete Applied Mathematics, Volume 166, 31 March 2014, Pages 188-203.

- J. Puerto, D. Pérez-Brito, C.G. Garcia-González, "A Modified Variable Neighborhood Search for the Discrete Ordered Median Problem", *European Journal of Operational Research*, Volume 234, Issue 1, 1 April 2014, Pages 61-76.
- J. Puerto, A.B. Ramos, A.M. Rodríguez-Chia, "A specialized Branch & Bound & Cut for Single-Allocation Ordered Median Hub Location problems", *Discrete Applied Mathematics*, 10.1016/j.dam.2013.05.035, 2013.
- J. Gago, M.I. Hartillo, J. Puerto, J.M. Ucha, "Exact cost minimization of a series-parallel reliable system with multiple component choices using an algebraic method", *Computers and Operations Research*, 11/2013 40(11):2752-2759.
- F. Perea, J. Puerto, "Finding the Nucleolus of any n-Person Cooperative Game by a Single Linear Program", *Computers and Operations Research*, 40(10), 2308-2313 (2013). 10.1016/j.cor.2013.03.011.
- F. Perea, J. Puerto, "Revisiting a game theoretic framework for the robust railway network design against intentional attacks", *European Journal of Operational Research*, 226(2), 286--292 (2013). 10.1016/j.ejor.2012.11.015.
- V. Blanco, J. Puerto, S. El Haj, "A Semidefinite Programming Approach for Solving Multiobjective Linear Programming", *Journal of Global Optimization*, 58(3):465-480, 2014.
- V. Blanco, S. El Haj, J. Puerto, "Minimizing ordered weighted averaging of rational functions with applications to Continuous Location", *Computer and Operations Research* 40 (2013), pp. 1448-1460.
- V. Blanco, J. Puerto, S. El Haj-Ben-Ali, "Optimizing ordered median functions with applications to single facility location", *Operations Research Proceedings 2011* ISBN. 978-3-642-29209-5, (2012), pp 329-334.
- V. Blanco, J. Puerto, "An application of integer programming to the decomposition of numerical semigroups", *SIAM J. Discrete Mathematics* Vol. 26, No. 3, 1210–1237, 2012.
- J. Puerto, F. Ricca, A. Scozzari, "Range minimization problems in path-facility location on trees" *Discrete Applied Mathematics*, 160(15), 2294-2305, 2012. doi:10.1016/j.dam.2012.05.020 (2012).
- M.C. López-de-los-Mozos, J. Puerto, A.M. Rodríguez-Chía, "Robust Mean Absolute Deviation Problems on Networks with Linear Vertex Weights", *NETWORKS* Vol. 61(1), 76-85 2013.
- F. Perea, J. Puerto, F.R. Fernandez, "Avoiding unfairness of Owen allocations in linear production processes". Accepted *European Journal of Operational Research* 220 (2012), pp. 125-131.
- F.R. Fernández, J. Puerto, "The minimum cost shortest-path tree game", *Annals of Operations Research* DOI: 10.1007/s10479-011-1043-8 (2011).
- E. Fernández, J. Puerto, A.M. Rodríguez-Chia, "On Discrete Optimization with Ordering", *Annals of Operations Research* (2011).

- M. Albareda, E. Fernandez, Y. Hinojosa, J. Puerto, "The Single Period Coverage Facility Location Problem: Lagrangean heuristic and column generation approaches". *TOP* DOI 10.1007/s11750-009-0102-7.
- J. Kalcsics, S. Nickel, J. Puerto, A. M. Rodríguez-Chía, "Distribution Systems Design With Role Dependent Objectives", *EJOR*, 491-501, DOI: 10.1016/j.ejor.2009.06.001. (2010).
- J. Puerto, A.M. Rodríguez-Chia, "On the structure of the solution set for the single facility location problem with average distances", *Mathematical Programming* 128:373-401, (2011).
- V. Blanco, L. Carpenente, Y. Hinojosa, J. Puerto, "Planning for agricultural forage harvesters and trucks: model, heuristics, and case study", *Networks and Spatial Economics* 10, 321--343, (2010).
- V. Blanco, J. Puerto, Ana B. Ramos, "Expanding the Spanish high-speed railway network", *OMEGA*, 39, 138-150, (2011).
- J. Puerto, Ana B. Ramos, A.M. Rodríguez-Chia, "Single-Allocation Ordered Median Hub Location Problems". *Computers and Operations Research* 559-570, (2010).
- V. Blanco, J. Puerto, "Some algebraic methods for solving multiobjective polynomial integer programs", *Journal of Symbolic Computation* 46, 511-533, (2011).
- V. Blanco, P.A. García-Sánchez, J. Puerto, "Counting Numerical Semigroups with short generating functions", *International Journal of Algebra and Computation*, 21:7, 1-18, 2011.
- M. Clemente, F.R. Fernández, J. Puerto, "Pareto-optimal security strategies in matrix games with fuzzy payoffs", *Fuzzy Sets and Systems*. 10.1016/j.fss.2011.03.006.
- F. Castro, J. Gago, I. Hartillo, J. Puerto, J.M. Ucha. "An algebraic approach to Integer Portfolio problems". *EJOR* 210 , 647-659, (2011).
- V. Blanco, J. Puerto, "A new complexity result on multiobjective linear integer programming using short rational generating functions". *Optimization Letters*, Volume 6, Issue 3 (2012), Page 537-543.
- J. Puerto, F. Ricca, A. Scozzari, "Minimax Regret path location on Trees", *Published On Line Networks* (2011).
- J. Puerto, A. Tamir, F. Perea, "A Cooperative Location Game Based on the 1-Center Location Problem", *European Journal of Operational Research*, vol 214:2 317-330, 2011.
- J. Puerto, A. Tamir, F. Perea, "Cooperative Location Games Based on the Minimum Diameter Spanning Steiner Subgraph Problem". *Discrete Applied Mathematics*, 160 (2012) 970-979.
- L. Carpenente, J. Puerto. A model and two heuristic approaches for a forage harvester planning problem: a case study. *TOP*. On line, 1 - 20.2010.
- L. Guardiola, A. MECA, J. Puerto. Production-inventory games: a new class of totally balanced combinatorial optimization games. *Games and Economic Behavior* 65, 205 - 219. 2009.

- J.A. Mesa, B. Pelegrín, J. Puerto. Selected papers presented at the tenth international symposium on locational decisions (ISOLDE). *Computers & Operations Research* 36, 1333 - 1334. 2009.
- J. Puerto, R. Hassin, F. R. Fernandez Garcia. The use of relative priorities in optimizing the performance of a queueing system. *European Journal of Operational Research*. 193 476 - 483. 2009.
- J. Puerto, F. Ricca, A. Scozzari. Extensive facility location problems on networks with equity measures. *Discrete Applied Mathematics* 157 1069 - 1085. 2009.
- J. Puerto, A. B. Ramos, A. M. Rodríguez-Chía: Single-allocation ordered median hub location problems. *Computers & OR* 38(2): 559-570 (2011) 49
- V. Blanco, J. Puerto: Some algebraic methods for solving multiobjective polynomial integer programs. *J. Symb. Comput.* 46(5): 511-533 (2011) 48
- J. Puerto, A. M. Rodríguez-Chía: On the structure of the solution set for the single facility location problem with average distances. *Math.Program.* 128(1-2): 373-401 (2011) 2010
- J. Puerto, A. M. Rodríguez-Chía, A. Tamir: On the Planar Piecewise Quadratic 1-Center Problem. *Algorithmica* 57(2): 252-283 (2010) 46
- J. Kalcsics, S. Nickel, J. Puerto, A. M. Rodríguez-Chía: Distribution systems design with role dependent objectives. *European Journal of Operational Research* 202(2): 491-501 (2010) 2009 45
- J. A. Mesa, B. Pelegrín, J. Puerto: Selected papers presented at the tenth International Symposium on Locational Decisions (ISOLDE X). *Computers & OR* 36(5): 1333-1334 (2009) 43
- M. Albareda-Sambola, E. Fernández, Y. Hinojosa, J. Puerto: The multi-period incremental service facility location problem. *Computers & OR* 36(5): 1356-1375 (2009) 42
- I. Espejo, A. Marín, J. Puerto, A. M. Rodríguez-Chía: A comparison of formulations and solution methods for the minimum-envy location problem. *Computers & OR* 36(6): 1966-1981 (2009) 41
- J. Puerto, F. Ricca, F. Scozzari: Extensive facility location problems on networks with equity measures. *Discrete Applied Mathematics* 157(5): 1069-1085 (2009) 40
- A. Marín, S. Nickel, J. Puerto, S. Velten: A flexible model and efficient solution strategies for discrete location problems. *Discrete Applied Mathematics* 157(5): 1128-1145 (2009) 39
- Refael Hassin, J. Puerto, F. R. Fernández: The use of relative priorities in optimizing the performance of a queueing system. *European Journal of Operational Research* 193(2): 476-483 (2009) 38
- Federico Perea, J. Puerto, F. R. Fernández: Modeling cooperation on a class of distribution problems. *European Journal of Operational Research* 198(3): 726-733 (2009) 37
- J. Puerto, A. M. Rodríguez-Chía, A. Tamir: Minimax Regret Single-Facility Ordered Median Location Problems on Networks. *INFORMS Journal on Computing* 21(1): 77-87 (2009) 36
- J. Puerto, F. Ricca, F. Scozzari: The continuous and discrete path-variance problems on trees. *Networks* 53(2): 221-228 (2009) 35
- V. Blanco, J. Puerto: Partial Gröbner Bases for Multiobjective Integer Linear Optimization. *SIAM J. Discrete Math.* 23(2): 571-595 (2009) 2008 34
- J. Puerto, F. R. Fernández, Y. Hinojosa: Partially ordered cooperative games: extended core and Shapley value. *Annals OR* 158(1): 143-159 (2008) 33

- Y. Hinojosa, J. Kalcsics, S. Nickel, J. Puerto, S. Velten: Dynamic supply chain design with inventory. Computers & OR 35(2): 373-391 (2008) 32
- M. Cruz López-de-los-Mozos, J. A. Mesa, J. Puerto: A generalized model of equality measures in network location problems. Computers & OR 35(3): 651-660 (2008) 31
- J. Puerto, A. M. Rodríguez-Chía: Quasiconvex constrained multicriteria continuous location problems: Structure of nondominated solution sets. Computers & OR 35(3): 750-765 (2008) 30
- J. Puerto, A. Tamir, J. A. Mesa, D. Pérez-Brito: Center location problems on tree graphs with subtree-shaped customers. Discrete Applied Mathematics 156(15): 2890-2910 (2008) 29
- M. D. García-Sanz, F. R. Fernández, M. G. Fiestras-Janeiro, I. García-Jurado, J. Puerto: Cooperation in Markovian queueing models. European Journal of Operational Research 188(2): 485-495 (2008) 28
- Luis A. Guardiola, Ana Meca, J. Puerto: Production-inventory games and PMAS-games: Characterizations of the Owen point. Mathematical Social Sciences 56(1): 96-108 (2008) 27
- Nicola Apollonio, Isabella Lari, F. Ricca, Bruno Simeone, J. Puerto: Polynomial algorithms for partitioning a tree into single-center subtrees to minimize flat service costs. Networks 51(1): 78-89 (2008) 2007 26
- J. Puerto, A. M. Rodríguez-Chía, A. Tamir: New Results on Minimax Regret Single Facility Ordered Median Location Problems on Networks. ESA 2007: 230-240 25
- J. Puerto: A New Formulation of the Capacitated Discrete Ordered Median Problems with 0, 1-Assignment. OR 2007: 165-170 24
- Federico Perea, J. Puerto: Dynamic programming analysis of the TV game "Who wants to be a millionaire?". European Journal of Operational Research 183(2): 805-811 (2007) 2006 23
- Natashia Boland, Patricia Domínguez-Marín, S. Nickel, J. Puerto: Exact procedures for solving the discrete ordered median problem. Computers & OR 33(11): 3270-3300 (2006) 22
- J. Puerto, A. M. Rodríguez-Chía, A. Tamir, D. Pérez-Brito: The bi-criteria doubly weighted center-median path problem on a tree. Networks 47(4): 237-247 (2006) 2005 21
- A. Marín, S. Nickel, J. Puerto, S. Velten: A Flexible Model and Efficient Solution Strategies for Discrete Location Problems. OR 2005: 349-354 20
- E. Fernández, Y. Hinojosa, J. Puerto: Filtering Policies in Loss Queuing Network Location Problems. Annals OR 136(1): 259-283 (2005) 19
- F. R. Fernández, M. G. Fiestras-Janeiro, I. García-Jurado, J. Puerto: Competition and Cooperation in Non-Centralized Linear Production Games. Annals OR 137(1): 91-100 (2005) 18
- A. Tamir, J. Puerto, J. A. Mesa, A. M. Rodríguez-Chía: Conditional location of path and tree shaped facilities on trees. J. Algorithms 56(1): 50-75 (2005) 17
- J. Puerto, A. Tamir: Locating tree-shaped facilities using the ordered median objective. Math.Program. 102(2): 313-338 (2005) 16
- J. Puerto, A. M. Rodríguez-Chía: On the exponential cardinality of FDS for the ordered p -median problem. Oper. Res. Lett. 33(6): 641-651 (2005)